

Table S6. Percent amino acid identity to bromoalterochromide gene cluster of BAC-containing *Pseudoalteromonas* genomes in MLSA tree (Fig. 2)

Strain	Gene	% amino acid identity	E-value	% query cover
<i>P. elyakovii</i> ATCC700519	<i>altA</i>	99.1	0	100.0
<i>P. elyakovii</i> ATCC700519	<i>altB</i>	100.0	5.13E-50	100.0
<i>P. elyakovii</i> ATCC700519	<i>altC</i>	97.2	0	100.0
<i>P. elyakovii</i> ATCC700519	<i>altD</i>	98.8	0	100.0
<i>P. elyakovii</i> ATCC700519	<i>altE</i>	100.0	5.11E-174	100.0
<i>P. elyakovii</i> ATCC700519	<i>altF</i>	100.0	0	100.0
<i>P. elyakovii</i> ATCC700519	<i>altG</i>	100.0	3.06E-86	100.0
<i>P. elyakovii</i> ATCC700519	<i>altH</i>	99.6	6.09E-149	91.8
<i>P. elyakovii</i> ATCC700519	<i>altI</i>	97.0	5.60E-153	100.0
<i>P. elyakovii</i> ATCC700519	<i>altJ</i>	98.4	2.78E-149	100.0
<i>P. elyakovii</i> ATCC700519	<i>altK</i>	98.7	0	97.8
<i>P. elyakovii</i> ATCC700519	<i>altL</i>	96.7	0	95.0
<i>P. elyakovii</i> ATCC700519	<i>altM</i>	98.2	0	79.2
<i>P. elyakovii</i> ATCC700519	<i>altN</i>	99.3	0	100.0
<i>P. flavipulchra</i> JG1	<i>altA</i>	99.6	0	100.0
<i>P. flavipulchra</i> JG1	<i>altB</i>	100.0	5.19E-50	100.0
<i>P. flavipulchra</i> JG1	<i>altC</i>	98.2	0	100.0
<i>P. flavipulchra</i> JG1	<i>altD</i>	97.8	0	100.0
<i>P. flavipulchra</i> JG1	<i>altE</i>	100.0	5.21E-174	100.0
<i>P. flavipulchra</i> JG1	<i>altF</i>	100.0	0	100.0
<i>P. flavipulchra</i> JG1	<i>altG</i>	100.0	3.10E-86	100.0
<i>P. flavipulchra</i> JG1	<i>altH</i>	99.1	1.39E-148	91.8
<i>P. flavipulchra</i> JG1	<i>altI</i>	96.2	1.30E-151	100.0
<i>P. flavipulchra</i> JG1	<i>altJ</i>	98.4	9.05E-151	100.0
<i>P. flavipulchra</i> JG1	<i>altK</i>	98.4	0	97.8
<i>P. flavipulchra</i> JG1	<i>altL</i>	97.1	0	88.6
<i>P. flavipulchra</i> JG1	<i>altM</i>	97.4	0	69.3
<i>P. flavipulchra</i> JG1	<i>altN</i>	99.3	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altA</i>	99.6	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altB</i>	100.0	5.22E-50	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altC</i>	98.0	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altD</i>	97.7	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altE</i>	100.0	5.24E-174	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altF</i>	100.0	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altG</i>	100.0	3.12E-86	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altH</i>	99.1	1.39E-148	91.8
<i>Pseudoalteromonas</i> sp. JC28	<i>altI</i>	95.7	9.58E-151	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altJ</i>	98.0	2.54E-149	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altK</i>	98.4	0	97.8

<i>Pseudoalteromonas</i> sp. JC28	<i>altL</i>	97.3	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altM</i>	96.9	0	100.0
<i>Pseudoalteromonas</i> sp. JC28	<i>altN</i>	97.8	0	100.0
<i>P. piscicida</i> ATCC15057	<i>altA</i>	100.0	0	100.0
<i>P. piscicida</i> ATCC15057	<i>altB</i>	100.0	5.33E-50	100.0
<i>P. piscicida</i> ATCC15057	<i>altC</i>	100.0	0	100.0
<i>P. piscicida</i> ATCC15057	<i>altD</i>	100.0	0	100.0
<i>P. piscicida</i> ATCC15057	<i>altE</i>	100.0	4.99E-174	100.0
<i>P. piscicida</i> ATCC15057	<i>altF</i>	100.0	0	100.0
<i>P. piscicida</i> ATCC15057	<i>altG</i>	100.0	2.97E-86	100.0
<i>P. piscicida</i> ATCC15057	<i>altH</i>	100.0	1.27E-149	91.8
<i>P. piscicida</i> ATCC15057	<i>altI</i>	100.0	1.99E-157	100.0
<i>P. piscicida</i> ATCC15057	<i>altJ</i>	100.0	3.18E-152	100.0
<i>P. piscicida</i> ATCC15057	<i>altK</i>	100.0	0	97.8
<i>P. piscicida</i> ATCC15057	<i>altL</i>	99.1	0	98.6
<i>P. piscicida</i> ATCC15057	<i>altM</i>	87.5	0	99.0
<i>P. piscicida</i> ATCC15057	<i>altN</i>	100.0	0	100.0
<i>P. piscicida</i> DE2B	<i>altA</i>	99.1	0	100.0
<i>P. piscicida</i> DE2B	<i>altB</i>	100.0	9.52E-50	100.0
<i>P. piscicida</i> DE2B	<i>altC</i>	92.8	0	89.0
<i>P. piscicida</i> DE2B	<i>altD</i>	96.0	0	100.0
<i>P. piscicida</i> DE2B	<i>altE</i>	100.0	5.04E-174	100.0
<i>P. piscicida</i> DE2B	<i>altF</i>	100.0	0	100.0
<i>P. piscicida</i> DE2B	<i>altG</i>	100.0	2.99E-86	100.0
<i>P. piscicida</i> DE2B	<i>altH</i>	98.2	7.07E-147	91.8
<i>P. piscicida</i> DE2B	<i>altI</i>	97.0	2.08E-152	100.0
<i>P. piscicida</i> DE2B	<i>altJ</i>	95.6	1.19E-146	100.0
<i>P. piscicida</i> DE2B	<i>altK</i>	97.4	0	86.8
<i>P. piscicida</i> DE2B	<i>altL</i>	96.8	0	100.2
<i>P. piscicida</i> DE2B	<i>altM</i>	94.9	0	100.0
<i>P. piscicida</i> DE2B	<i>altN</i>	97.3	0	100.0
<i>P. piscicida</i> JCM20779	<i>altA</i>	100.0	0	100.0
<i>P. piscicida</i> JCM20779	<i>altB</i>	100.0	5.32E-50	100.0
<i>P. piscicida</i> JCM20779	<i>altC</i>	100.0	0	100.0
<i>P. piscicida</i> JCM20779	<i>altD</i>	100.0	0	100.0
<i>P. piscicida</i> JCM20779	<i>altE</i>	100.0	4.94E-174	100.0
<i>P. piscicida</i> JCM20779	<i>altF</i>	100.0	0	100.0
<i>P. piscicida</i> JCM20779	<i>altG</i>	100.0	2.96E-86	100.0
<i>P. piscicida</i> JCM20779	<i>altH</i>	100.0	1.25E-149	91.8
<i>P. piscicida</i> JCM20779	<i>altI</i>	100.0	1.97E-157	100.0
<i>P. piscicida</i> JCM20779	<i>altJ</i>	100.0	3.14E-152	100.0
<i>P. piscicida</i> JCM20779	<i>altK</i>	100.0	0	97.8
<i>P. piscicida</i> JCM20779	<i>altL</i>	100.0	0	91.9

<i>P. piscicida</i> JCM20779	<i>altM</i>	100.0	0	69.1
<i>P. piscicida</i> JCM20779	<i>altN</i>	100.0	0	100.0
<i>P. piscicida</i> S2040	<i>altA</i>	99.6	0	100.0
<i>P. piscicida</i> S2040	<i>altB</i>	99.0	3.31E-49	100.0
<i>P. piscicida</i> S2040	<i>altC</i>	97.6	0	100.0
<i>P. piscicida</i> S2040	<i>altD</i>	98.1	0	100.0
<i>P. piscicida</i> S2040	<i>altE</i>	100.0	4.68E-174	100.0
<i>P. piscicida</i> S2040	<i>altF</i>	100.0	0	100.0
<i>P. piscicida</i> S2040	<i>altG</i>	99.2	1.35E-85	100.0
<i>P. piscicida</i> S2040	<i>altH</i>	100.0	1.19E-149	91.8
<i>P. piscicida</i> S2040	<i>altI</i>	97.9	1.34E-153	100.0
<i>P. piscicida</i> S2040	<i>altJ</i>	98.4	1.63E-150	100.0
<i>P. piscicida</i> S2040	<i>altK</i>	99.1	0	97.8
<i>P. piscicida</i> S2040	<i>altL</i>	98.0	0	80.9
<i>P. piscicida</i> S2040	<i>altM</i>	97.5	0	67.6
<i>P. piscicida</i> S2040	<i>altN</i>	99.0	0	100.0
<i>P. piscicida</i> S2724	<i>altA</i>	99.6	0	100.0
<i>P. piscicida</i> S2724	<i>altB</i>	100.0	4.90E-50	100.0
<i>P. piscicida</i> S2724	<i>altC</i>	97.8	0	100.0
<i>P. piscicida</i> S2724	<i>altD</i>	98.2	0	100.0
<i>P. piscicida</i> S2724	<i>altE</i>	99.6	1.93E-173	100.0
<i>P. piscicida</i> S2724	<i>altF</i>	99.7	0	100.0
<i>P. piscicida</i> S2724	<i>altG</i>	100.0	2.92E-86	100.0
<i>P. piscicida</i> S2724	<i>altH</i>	99.1	2.09E-148	91.8
<i>P. piscicida</i> S2724	<i>altI</i>	96.2	4.38E-152	100.0
<i>P. piscicida</i> S2724	<i>altJ</i>	98.0	2.28E-150	100.0
<i>P. piscicida</i> S2724	<i>altK</i>	98.7	0	97.8
<i>P. piscicida</i> S2724	<i>altL</i>	96.9	0	100.2
<i>P. piscicida</i> S2724	<i>altM</i>	97.7	0	100.0
<i>P. piscicida</i> S2724	<i>altN</i>	99.0	0	100.0